



Docket No. 645-143

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT OPERATION

Applicants:

Hiroiyuki Minamikawa et al.

Serial Number: 09/841,614

Filing Date: April 24, 2001

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) Examiner: Karl Group
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) Group Art Unit: 1755
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Title: LOW EXPANSION TRANSPARENT GLASS-CERAMICS, GLASS-CERAMIC
SUBSTRATE AND OPTICAL WAVEGUIDE ELEMENT

New York, NY 10036
January 12, 2005

Mail Stop Non-Fee Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

This Amendment is being filed in response to the Office
Action that was mailed October 12, 2004. Kindly amend the subject
application as follows: